

## PART B - FEE(S) TRANSMITTAL

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P.O. Box 1450  
Alexandria, Virginia 22313-1450  
or **Fax** (571)-273-2885

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04/21/2008

THE DIRECTV GROUP, INC.  
PATENT DOCKET ADMINISTRATION  
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P O BOX 956  
EL SEGUNDO, CA 90245-0956



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I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

Janet Shibata (Depositor's name)  
[Signature] (Signature)  
July 18, 2008 (Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/519,322	12/23/2004	Ernest C Chen	PD-202109	9113
TITLE OF INVENTION: IMPROVING HIERARCHICAL 8PSK PERFORMANCE			07/21/2008	NGEBREH2 00000109 500303 10519322

01 FC:1501 1440.00 DA  
02 FC:1504 300.00 DA

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	07/21/2008

EXAMINER	ART UNIT	CLASS-SUBCLASS
AHN, SAM K	2611	375-329000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively,  
(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

The DIRECTV Group, Inc.

(B) RESIDENCE: (CITY AND STATE OR COUNTRY)

El Segundo, California

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☒ Issue Fee  
☒ Publication Fee (No small entity discount permitted)  
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- ☐ A check is enclosed.  
☐ Payment by credit card. Form PTO-2038 is attached.  
☒ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number 50-0383 (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature

*Todd N. Snyder*

Date July 18, 2008

Typed or printed name

Todd N. Snyder

Registration No. 41,320

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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TITLE OF INVENTION: IMPROVING HIERARCHICAL 8PSK PERFORMANCE

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Fax: (571) 273-2885

Pages: Cover + 1 + 1 = 3

Date: July 18, 2008

From: Todd N. Snyder

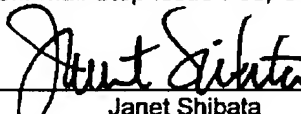
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Janet Shibata

(Printed Name of Depositor)

July 18, 2008  
(Date of Signature)

Please find attached Re:

Attorney Docket No. PD-202109

Serial No.: 10/519,322

Filing Date: 12/23/2004

Title: IMPROVING HIERARCHICAL 8PSK PERFORMANCE

➤ PART B – FEE(S) TRANSMITTAL FORM PTOL-85 (1 page in duplicate)

The DirecTV Group, Inc., CA/LA1/A109, 2230 E. Imperial Highway, El Segundo, California 90245